## CLAIMS

We claim at least the following:

1	1.	A method for performing polymer analysis, comprising:
2		providing a sample and a polymer array, the polymer array having a
3		plurality of spots;
4		providing a set of conditions that are selected to generate a response
5		from selected spots;
6		applying the set of conditions to the sample; and
7		generating data corresponding to the response from the selected spots.
1	2.	The method of claim 1, further comprising:
2		modifying the set of conditions applied to the sample until the data
3		satisfy a criteria.
1	3.	The method of claim 1, wherein providing a set of conditions comprises:
2		providing a set of hybridization conditions.
1	4.	The method of claim 3, wherein providing a set of hybridization conditions
2		comprises:
3		adjusting the hybridization conditions applied to the sample
4		dynamically until hybridization data satisfies a hybridization criteria
5		corresponding to the selected spots.

1	5.	The method of claim 3, wherein the hybridization conditions are selected
2		from: temperature of the polymer array, pH of the polymer array, a time period
3		of the polymer array, and stringency of the polymer array, and combinations
4		thereof.
1	6.	The method of claim 1, wherein providing a set of conditions comprises:
2		providing a set of washing conditions.
1	7.	The method of claim 6, wherein providing a set of washing conditions
2		comprises:
3		adjusting the washing conditions applied to the sample dynamically
4		until a washing data satisfy washing criteria corresponding to the selected
5		spots.
1	8.	The method of claim 6, wherein the washing conditions are selected from:
2		temperature of the nucleic acid array, pH of the nucleic acid array, a time
3		period of the nucleic acid array, and stringency of the nucleic acid array.

1	9.	A method for performing a polymer array analysis, comprising:
2		providing a sample and a polymer array, the polymer array having a
3		plurality of spots;
4		providing a set of hybridization conditions and a set of wash conditions
5		that are selected to generate a response for selected spots;
6		applying the hybridization conditions to the sample;
7		generating hybridization data corresponding to a first response from the
8		selected spots;
9		adjusting the hybridization conditions applied to the sample until the
10		hybridization data satisfy hybridization criteria;
11		applying the wash conditions to the sample;
12		generating washing data corresponding to a second response from the
13		selected spots;
14		adjusting the washing conditions applied to the sample until the
15		washing data satisfy washing criteria; and
16		generating polymer array data.
1	10.	The method of claim 9, wherein the polymer array is selected from a
2		polynucleotide array and a polypeptide array.
1	11.	The method of claim 9, wherein the hybridization conditions are selected
2		from: temperature of the polymer array, pH of the polymer array, a time period
3		of the polymer array, and stringency of the polymer array, and combinations
4		thereof.

- 1 12. The method of claim 9, wherein the washing conditions are selected from:
- 2 temperature of the nucleic acid array, pH of the nucleic acid array, a time
- period of the nucleic acid array, and stringency of the nucleic acid array.

1	13.	A system for performing polymer analysis, comprising:
2		a polymer control system operative to:
3		apply a set of conditions to a sample being analyzed using a
4		polymer array, the polymer array having a plurality of spots, the set of
5		conditions are selected to generate a response from the selected spots;
6		analyze data corresponding to the selected spots using the
7		polymer control system; and
8		generate polymer array data.
1	14.	The system of claim 13, wherein the polymer control system is stored on a
2		computer-readable medium.
1	15.	The system of claim 13, wherein the polymer control system comprises:
2		receptive logic configured to analyze the data.
1	16.	The system of claim 13, wherein the polymer control system is further
2		operative to dynamically adjust the set of conditions applied to the polymer
3		array.
1	17.	The system of claim 13, further comprising:
2		means for analyzing the data.

- 1 18. The system of claim 13, wherein the set of conditions is selected from a set of
- 2 hybridization conditions and a set of wash conditions.
- 1 19. The system of claim 13, further comprising a polymer analysis system
- 2 comprising the polymer array and the polymer control system, the polymer
- 3 array selected from a polynucleotide array and a polypeptide array.